URS CONSULTANTS, INC.

MEMORANDUM

62760.05.20.314

15.b1

TO:

Ms. Monica Rolluda, HW-114, U.S. EPA Region 10

FROM:

Ms. Kara Steward, URS Consultants, Inc.

DATE:

March 19, 1993

SUBJECT:

Avery Railroad Dump and Roundhouse HRS Memorandum

CERCLIS No. IDD984666313

REF:

Contract No. 68-W9-0054

Work Assignment No. 54-17-0JZZ

A preliminary Hazard Ranking System (HRS) score was computed for the Avery Railroad Dump and Roundhouse site based on information gathered during this site investigation (SI). The score was determined in accordance with the HRS Final Rule (40 CFR Part 300). A preliminary score of 4.47 was calculated for the Avery Railroad Dump and Roundhouse site. Site information collected is provided in the SI report. Assumptions used in the absence of site information are described in this memorandum.

Waste Characteristics

- One source was identified at this site: site soils. Activities at the site were not observed to be contained nor were they reported to have been historically contained (i.e., liners, spill containment basins, etc.)
- The site soils source was defined as the surface area of the entire site, 7 acres (7 acres * 43,500 square feet/acre = 304,500 square feet). As a worst case, site soils were assumed to contain 16 analytes detected at significant concentrations, from the SI sampling results, in site subsurface soil samples (SS03-2 results were used for VOC and semivolatile concentrations and SS06-2 data were used for inorganic and PCB concentrations).
- The oily seep source observed along the St. Joe River bank was excluded from this HRS calculation. The source of the seep was assumed to be the former railroad fuel tank and ancillary piping. Petroleum products are excluded from consideration under CERCLA.



Likelihood of Release

- Based on observations during URS' site visits and as noted from previous documents, no containment structures are assumed to have existed at this site. The site soil source was assigned containment values of 10 (the maximum) for all pathways.
- Observed releases were established for the groundwater, surface water, and soil exposure pathways based on the criteria presented in HRS Table 2-5.

Analytes detected in the on-site monitoring well (WHC01) established the observed release to groundwater in the perched aquifer. No attributable contaminants were detected in the samples collected from the local residential wells.

Significant concentration of contaminants in soil samples collected from the site established the observed release in the soil exposure pathway.

Targets

• The on-site residential population is one year-round resident exposed to a Level I contamination. For worst case, 20 temporary residents are reported to have used this site for living quarters. The addition of 20 on-site residents to the HRS calculation increased the score to 16.05.

Groundwater Pathway

- The unconfined aquifer received a Level I concentration due to the contaminants detected in the nearest well, on-site monitoring well HC-3 (sample WHC01).
- The lower confined aquifer (Belt Formation Shales) was assumed to be interconnected with the upper-unconfined aquifer. The 13 foot layer of confining shale over this aquifer was assumed to have a hydraulic conductivity of 1E-8 based on HRS Table 3-6.
- The perched groundwater is assumed to be providing the mode of transport for the contaminants detected at significant concentrations in the on-site monitoring well (sample WHC01) to enter the river.

Surface Water Pathway

- The St. Joe River flows along the southern border of the site. The probable point of entry to the surface water is assumed to be 0 feet.
- The drainage area is assumed to be less than 50 acres, which includes the entire site, 7 acres, and part of the hillside upgradient of the site. Culverts were observed to divert the runoff from the hillside under the St. Joe River Road onto the site.
- The soil group designation for site soils was assumed to be medium texture soils or group B (HRS Table 4-4) based on professional judgement.
- The angle theta was determined to be 190 degrees.
- The State of Idaho designation of the St. Joe River as a "Special Resource Water" was assumed to equate to a Sensitive Environment Rating Value of 25 from HRS Table 4-23.

Soil Pathway

- The residential population of 1 was assigned to this site.
- No resource use or terrestrial sensitive environments were known to exist on this site.

Air Pathway

• A Thornthwaite particulate migration potential factor (P-E Index) value of 11 was assigned for this site.

oxfor release mr 4/15/93

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Record Information

- 1. Site Name: Avery Railroad Dump and Roundhouse (as entered in CERCLIS)
- 2. Site CERCLIS Number: IDD984666313
- 3. Site Reviewer: K. Steward
- 4. Date: 03/11/93
- 5. Site Location: Avery/Shoshone, Idaho (City/County, State)
- 6. Congressional District:
- 7. Site Coordinates: Single

Latitude: 47°12'31.6"

Longitude: 115°49'15.0"

Site Description

- 1. Setting: Rural
- 2. Current Owner: Private Industrial
- 3. Current Site Status: Inactive
- 4. Years of Operation: Active Site , from and to dates: 1909-1977
- 5. How Initially Identified: State/Local Program
- 6. Entity Responsible for Waste Generation:
 - Other Railroad Maintenance
- 7. Site Activities/Waste Deposition:
 - Surface Impoundment
 - Waste Piles
 - Drum/Container Storage
 - Illegal Dumping
 - Tanks Above Ground Tanks Below Ground

 - Airborne Release/Incineration

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Waste Description

- 8. Wastes Deposited or Detected Onsite:
 - Organic Chemicals
 - Inorganic Chemicals
 - Solvents
 - Metals
 - Oily Waste
 - Lead
 - PCBs

Response Actions

9. Response/Removal Actions:

RCRA Information

- 10. For All Active Facilities, RCRA Site Status:
 - Not Applicable

Demographic Information

- 11. Workers Present Onsite: Yes
- 12. Distance to Nearest Non-Worker Individual: Onsite
- 13. Residential Population Within 1 Mile: 48.0
- 14. Residential Population Within 4 Miles: 185.0

Water Use Information

- 15. Local Drinking Water Supply Source:
 - Ground Water (within 4 mile distance limit)
- 16. Total Population Served by Local Drinking Water Supply Source:

185.0

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- 17. Drinking Water Supply System Type for Local Drinking Water Supply Sources:
 - Private
- 18. Surface Water Adjacent to/Draining Site:
 - Contaminated River

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PAGE:

 Site Name: Avery Railroad Dump and Roundhouse (as entered in CERCLIS)

2. Site CERCLIS Number: IDD984666313

. 3. Site Reviewer: K. Steward

4. Date: 03/11/93

Site Location: Avery/Shoshone, Idaho (City/County,State)

6. Congressional District:

7. Site Coordinates: Single

Latitude: 47°12'31.6"

Longitude: 115°49'15.0"

| | Score |
|---|-------|
| Ground Water Migration Pathway Score (Sgw) | 4.32 |
| Surface Water Migration Pathway Score (Ssw) | 0.01 |
| Soil Exposure Pathway Score (Ss) | 7.81 |
| Air Migration Pathway Score (Sa) | 0.68 |

| Site Score | | 4.47 |
|------------|--|------|
| | | 1 |

NOTE

EPA uses the terms "facility," "site," and "release" interchangeably. The term "facility" is broadly defined in CERCLA to include any area where hazardous substances have "come to be located" (CERCLA Section 109(9)), and the listing process is not intended to define or reflect boundaries of such facilities or releases. Site names, and references to specific parcels or properties, are provided for general identification purposes only. Knowledge regarding the extent of sites will be refined as more information is developed during the RI/FS and even during implementation of the remedy.

| GROUND WATER MIGRATION PATHWAY Factor Categories & Factors | Maximum Value | Value Assigned |
|--|------------------|----------------------|
| Likelihood of Release to an Aquifer Aquifer: Belt Form Shales | | |
| 1. Observed Release | 550 | 0 |
| 2. Potential to Release | | |
| 2a. Containment | 10 | 10 |
| 2b. Net Precipitation | 10 | 6 |
| 2c. Depth to Aquifer 2d. Travel Time | 5 | 5 |
| 2d. Travel Time 2e. Potential to Release | 35 | > |
| [lines 2a(2b+2c+2d)] | 500 | 160 |
| 3. Likelihood of Release | 550 | 550 |
| 3. Erketmood of Recede | 330 | |
| Waste Characteristics | | |
| 4. Toxicity/Mobility | * | 1.00E+04 |
| 5. Hazardous Waste Quantity | * | 10 |
| 6. Waste Characteristics | 100 | 18 |
| Targets | | |
| 7. Nearest Well | 50 | 2.00E+01 |
| 8. Population | | |
| 8a. Level I Concentrations | ** | 0.00E+00 |
| 8b. Level II Concentrations | ** | 0.00E+00 |
| 8c. Potential Contamination | ** | 1.10E+01 |
| 8d. Population (lines 8a+8b+8c) | ** | 1.10E+01 |
| 9. Resources | 5 | 0.00E+00 |
| 10. Wellhead Protection Area | 20 | 0.00E+00 |
| 11. Targets (lines 7+8d+9+10) | ** | 3.10E+01 3.60E+01 |
| Targets (including overlaying aquifers) Aquifer Score | 100 | 3.60E+01 4.32 |
| GROUND WATER MIGRATION PATHWAY SCORE (Sgw) | 100 | 4.32 |

^{*} Maximum value applies to waste characteristics category. ** Maximum value not applicable.

| · | | |
|---|------------------|----------------------|
| SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT Factor Categories & Factors DRINKING WATER THREAT | Maximum Value | Value Assigned |
| Likelihood of Release | | |
| 1. Observed Release | 550 | 0 |
| 2. Potential to Release by Overland Fl 2a. Containment | | 10 |
| 2a. Containment 2b. Runoff | 10 25 | 10 0 |
| 2c. Distance to Surface Water | 25 | 25 |
| 2d. Potential to Release by Overlar | | 250 |
| Flow [lines 2a(2b+2c)] | ~ 500, | |
| 3. Potential to Release by Flood | | |
| 3a. Containment (Flood) | 10 | 10 |
| 3b. Flood Frequency | . 50 | 25 |
| 3c. Potential to Release by Flood | 500 | 250 |
| (lines 3a x 3b) | | |
| 4. Potential to Release (lines 2d+3c) | 500 | 500 |
| 5. Likelihood of Release | 550 | . 500 |
| Waste Characteristics | | |
| 6. Toxicity/Persistence | * | 1.00E+04 |
| 7. Hazardous Waste Quantity | . * | 10 |
| 8. Waste Characteristics | 100 | 18 |
| Targets | | |
| 9. Nearest Intake | 50 | 0.00E+00 |
| 10. Population | | |
| 10a. Level I Concentrations | ** | 0.00E+00 |
| 10b. Level II Concentrations | ** | 0.00E+00 |
| 10c. Potential Contamination | ** ** | 0.00E+00 0.00E+00 |
| 10d. Population (lines 10a+10b+10c) | 5 | 0.00E+00 |
| 11. Resources 12. Targets (lines 9+10d+11) | ** | 0.00E+00 |
| 12. Idigets (tilles 7*Iouvil) | | 3.002.00 |
| 13. DRINKING WATER THREAT SCORE | 100 | 0.00 |

^{*} Maximum value applies to waste characteristics category.
** Maximum value not applicable.

| SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT Factor Categories & Factors HUMAN FOOD CHAIN THREAT | Maximum Value | Value Assigned |
|---|----------------------------|--|
| Likelihood of Release | | |
| 14. Likelihood of Release (same as line 5) | 550 | 500 |
| Waste Characteristics | | |
| 15. Toxicity/Persistence/Bioaccumulation 16. Hazardous Waste Quantity 17. Waste Characteristics | * * 1000 | 5.00E+08 10 180 |
| Targets | | |
| 18. Food Chain Individual 19. Population 19a. Level I Concentrations 19b. Level II Concentrations 19c. Pot. Human Food Chain Contamination 19d. Population (lines 19a+19b+19c) 20. Targets (lines 18+19d) | 50 ** ** ** ** | 0.00E+00 0.00E+00 0.00E+00 3.10E-03 3.10E-03 3.10E-03 |
| 21. HUMAN FOOD CHAIN THREAT SCORE | 100 | 0.00 |

^{*} Maximum value applies to waste characteristics category.
** Maximum value not applicable.

| <u> </u> | | |
|---|---------|----------|
| SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT | Maximum | Value |
| Factor Categories & Factors ENVIRONMENTAL THREAT | Value | Assigned |
| Likelihood of Release | | |
| 22. Likelihood of Release (same as line 5) | 550 | 500 |
| Waste Characteristics | | |
| 23. Ecosystem Toxicity/Persistence/Bioacc. | * | 5.00E+08 |
| 24. Hazardous Waste Quantity | * | 10 |
| 25. Waste Characteristics | 1000 | 180 |
| Targets | | |
| 26. Sensitive Environments | | |
| 26a. Level I Concentrations | ** | 0.00E+00 |
| 26b. Level II Concentrations | ** | 0.00E+00 |
| 26c. Potential Contamination | ** | 2.50E-03 |
| 26d. Sensitive Environments | ** | 2.50E-03 |
| (lines 26a+26b+26c) | | • |
| 27. Targets (line 26d) | **. | 2.50E-03 |
| 28. ENVIRONMENTAL THREAT SCORE | 60 | 0.00 |
| 29. WATERSHED SCORE | 100 | 0.01 |
| 30. SW: OVERLAND/FLOOD COMPONENT SCORE (Sof) | 100 | 0.01 |

^{*} Maximum value applies to waste characteristics category.
** Maximum value not applicable.

PRESCORE 1.0 - PRESCORE.TCL File 12/23/91 SOIL EXPOSURE PATHWAY SCORESHEET Avery Railroad Dump and Roundhouse - 03/11/93

PAGE:

| SOIL EXPOSURE PATHWAY Factor Categories & Factors RESIDENT POPULATION THREAT | Maximum Value | Value Assigned |
|--|------------------|----------------------|
| Likelihood of Exposure | | |
| 1. Likelihood of Exposure | 550 | 550 |
| Waste Characteristics | | |
| 2. Toxicity 3. Hazardous Waste Quantity 4. Waste Characteristics | * * 100 | 1.00E+04 10 18 |
| Targets | | |
| 5. Resident Individual 6. Resident Population | 50 | 5.00E+01 |
| 6a. Level I Concentrations | ** | 1.00E+01 |
| 6b. Level II Concentrations | ** | 0.00E+00 |
| 6c. Resident Population (lines 6a+6b) | ** | 1.00E+01 |
| 7. Workers | 15 | 5.00E+00 |
| 8. Resources | 5 | 0.00E+00 |
| 9. Terrestrial Sensitive Environments | *** | 0.00E+00 |
| 10. Targets (lines 5+6c+7+8+9) | ** | 6.50E+01 |
| 11. RESIDENT POPULATION THREAT SCORE | ** | 6.44E+05 |

^{*} Maximum value applies to waste characteristics category.
** Maximum value not applicable.
*** No specific maximum value applies, see HRS for details.

PRESCORE 1.0 - PRESCORE.TCL File 12/23/91 SOIL EXPOSURE PATHWAY SCORESHEET Avery Railroad Dump and Roundhouse - 03/11/93

PAGE:

**

100

4.50E+02

7.81

SOIL EXPOSURE PATHWAY Factor Categories & Factors Maximum Value NEARBY POPULATION THREAT Value Assigned Likelihood of Exposure 100 12. Attractiveness/Accessibility 5.00E+01 13. Area of Contamination 100 6.00E+01 14. Likelihood of Exposure 500 1.25E+02 Waste Characteristics 1.00E+04 15. Toxicity 16. Hazardous Waste Quantity 10 17. Waste Characteristics 100 18 Targets 0.00E+00 18. Nearby Individual 2.00E-01 19. Population Within 1 Mile ** 20. Targets (lines 18+19) 2.00E-01

21. NEARBY POPULATION THREAT SCORE

SOIL EXPOSURE PATHWAY SCORE (Ss)

^{*} Maximum value applies to waste characteristics category.

^{**} Maximum value not applicable.

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PAGE:

| AIR MIGRATION PATHWAY Factor Categories & Factors | Maximum Value | Value Assigned |
|--|------------------|-------------------|
| Likelihood of Release | | |
| 1. Observed Release 2. Potential to Release | 550 | 0 |
| 2a. Gas Potential to Release | 500 | 360 |
| 2b. Particulate Potential to Release | 500 | 330 |
| 2c. Potential to Release | 500 | 360 |
| 3. Likelihood of Release | 550 | 360 |
| Waste Characteristics | | • |
| 4. Toxicity/Mobility | • | 2.00E+02 |
| 5. Hazardous Waste Quantity | * | 10 |
| 6. Waste Characteristics | 100 | 6 |
| Targets | | |
| 7. Nearest Individual 8. Population | 50 | 2.00E+01 |
| 8a. Level I Concentrations | ** | . 0.00E+00 |
| 8b. Level II Concentrations | ** | 0.00E+00 |
| 8c. Potential Contamination | ** | 1.00E+00 |
| 8d. Population (lines 8a+8b+8c) | ** | 1.00E+00 |
| 9. Resources | 5 | 5.00E+00 |
| 10. Sensitive Environments | i | |
| 10a. Actual Contamination | *** | 0.00E+00 |
| 10b. Potential Contamination | *** | 0.00E+00 |
| 10c. Sens. Environments(lines 10a+10b) | *** | 0.00E+00 |
| 11. Targets (lines 7+8d+9+10c) | ** | 2.60E+01 |
| AIR MIGRATION PATHWAY SCORE (Sa) | 100 | 6.81E-01 |

^{*} Maximum value applies to waste characteristics category.

** Maximum value not applicable.

*** No specific maximum value applies, see HRS for details.

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PAGE:

1. WASTESTREAM QUANTITY SUMMARY TABLE, SOURCE: Avery site

| a. Wástestream ID | |
|--|----------|
| b. Hazardous Constituent Quantity (C) (lbs.) | 0.00 |
| c. Data Complete? | NO |
| d. Hazardous Wastestream Quantity (W) (lbs.) | 0.00 |
| e. Data Complete? | NO |
| f. Wastestream Quantity Value (W/5,000) | 0.00£+00 |

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2. SOURCE HAZARDOUS WASTE QUANTITY FACTOR TABLE

| a. | Source ID | | Avery site | • | |
|----|--|-------------------|-------------------|-----------|--|
| b. | . Source Type | | Contaminated Soil | | |
| c. | Secondary Source Type | • | N.A. | | |
| d. | Source Volume (yd3) | Source Area (ft2) | 0.00 | 304500.00 | |
| e. | Source Volume/Area Value | | 8.96E+00 | | |
| f. | Source Hazardous Cons (HCQ) Value (sum of | · . | 0.00E+00 | | |
| g. | Data Complete? | | NO | | |
| h. | Source Hazardous Wastestream Quantity (WSQ) Value (sum of 1f) | | 0.00E+00 | | |
| i. | Data Complete? | | NO - | | |
| k. | Source Hazardous Wast Value (2e, 2f, or 2h) | | 8.96E+00 | | |

| Source Hazardous Substances | Depth (feet) | Liquid | Concent. | Units |
|--------------------------------|-----------------|--------|----------|-------|
| Acenaphthene | < 2 | NO | 8.7E+00 | ppm |
| Anthracene | < 2 | NO | 2.6E+00 | ppm |
| Barium | < 2 | NO | 3.0E+02 | ppm |
| Benz(a)anthracene | < 2 | NO | 2.2E+00 | ppm |
| Bis (2-ethylhexyl) phthalate | < 2 | NO | 6.1E+00 | ppm |
| Chrysene | < 2 | NO | 2.5E+00 | ррт |
| Copper | < 2 | NO | 3.8E+02 | ppm |
| Ethyl benzene | < 2 | NO | 6.5E-02 | ppm |
| Fluorene | < 2 | NO | 1.1E+01 | ppm |
| Lead . | < 2 | NO | 5.3E+02 | ppm |
| Naphthalene | < 2 | NO | 6.0E+00 | ppm |
| PCBs | < 2 | NO | 8.7E+01 | ppm |
| Phenanthrene | < 2 | NO | 3.1E+01 | ppm |
| Pyrene | < 2 | NO | 5.9E+00 | ppm |
| Toluene | < 2 | NO | 4.9E-02 | ppm |
| Xylene, o- | < 2 | NO | 1.6E+00 | ppm |

PRESCORE 1.0 - PRESCORE.TCL File 12/23/91 · PAGE: 11 WASTE QUANTITY Avery Railroad Dump and Roundhouse - 03/11/93

Documentation for Source Hazardous Substances:

Significant data reported for site soil samples collected 8/26/92, significance determined based on criteria in HRS Table 2-5.

. Reference:

Documentation for Source Area:

Entire site considered source, 7 acres * 4.35E+4 sq. ft./acre = 304,500 sq. ft.

Reference:

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3. SITE HAZARDOUS WASTE QUANTITY SUMMARY

| No. | Source ID | | Vol. or Area Value (2e) | Constituent or Wastestream Value (2f,2h) | Waste Qty. Value (2k) |
|-----|------------|------------|----------------------------|--|--------------------------|
| . 1 | Avery site | GW-SW-SE-A | 8.96E+00 | 0.00E+00 | 8.96E+00 |

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Avery Railroad Dump and Roundhouse - 03/11/93

4. PATHWAY HAZARDOUS WASTE QUANTITY AND WASTE CHARACTERISTICS SUMMARY TABLE

| Migration Pathway | Contaminant Value | es | HWQVs* | WCVs** |
|------------------------|-----------------------|----------|--------|--------|
| Ground Water | Toxicity/Mobility | 1.00E+04 | 10 | 18 |
| SW: Overland Flow, DW | Tox./Persistence | 1.00E+04 | 10 | 18 |
| SW: Overland Flow, HFC | Tox./Persis./Bioacc. | 5.00E+08 | 10 | 180 |
| SW: Overland Flow, Env | Etox./Persis./Bioacc. | 5.00E+08 | 10 | 180 |
| SW: GW to SW, DW | Tox./Persistence | 1.00E+04 | 10 | 18 |
| SW: GW to SW, HFC | Tox./Persis./Bioacc. | 5.00E+08 | 10 | 180 |
| SW: GW to SW, Env | Etox./Persis./Bioacc. | 5.00E+06 | 10 | 56 . |
| Soil Exposure:Resident | Toxicity | 1.00E+04 | 10 | 18 |
| Soil Exposure: Nearby | Toxicity | 1.00E+04 | 10 | 18 |
| Air | Toxicity/Mobility | 2.00E+02 | 10 | 6 |

* Hazardous Waste Quantity Factor Values

** Waste Characteristics Factor Category Values

Note: SW = Surface Water

GW = Ground Water

DW = Drinking Water Threat HFC = Human Food Chain Threat

Env = Environmental Threat

PRESCORE 1.0 - PRESCORE.TCL File 12/23/91 GROUND WATER PATHWAY AQUIFER SUMMARY Avery Railroad Dump and Roundhouse - 03/11/93

| No. Aquifer ID | Туре | Overlaying No. | Inter- Connected with | Likelihood of Release | Targets |
|----------------------|-------|----------------|-----------------------------|--------------------------|----------|
| 1 Unconfined shallow | Non K | 0 | 0 | 550 | 5.00E+00 |
| 2 Belt Form Shales | Non K | 1 | 1 | 550 | 3.60E+01 |

Containment

| No. | Source ID | HWQ Value | Containment Value |
|-----|------------|-----------|---|
| 1 | Avery site | 8.96E+00 | 10 |
| === | | ======= | *************************************** |

Documentation for Ground Water Containment, Source Avery site:

Reference: 1, 2

Net Precipitation

Net Precipitation (inches)

22.80

Documentation for Net Precipitation:

Calculated in Appendix B of SI report

Reference: 4

PRESCORE 1.0 - PRESCORE.TCL File 12/23/91 PAGE: 15 GROUND WATER PATHWAY LIKELIHOOD OF RELEASE Unconfined shallow AQUIFER Avery Railroad Dump and Roundhouse - 03/11/93

Aquifer: Unconfined shallow

Type of Aquifer: Non Karst

Overlaying Aquifer: 0

Interconnected with: 0

OBSERVED RELEASE

| No. | Wėll ID | Well Type | | tance iles) | Level of (| Contaminat | ion |
|-----|--------------|------------|----------|----------------|---|------------|--------|
| 1 | WHC01 (HC-3) | Monitoring | Well 0 | .000 | Level I | | |
| Wel | ι . | • | | | | | |
| No. | Hazardoùs | Substance | Concent. | MCL | Cancer | RFD | Units |
| 1 | Acenaphthene | | 5.4E+01 | 0.0E+00 | 0.0E+00 | 2.1E+03 | ppb |
| 1 | Arsenic | • | 1.0E+02 | 5.0E+01 | 2.0E-02 | 1.1E+01 | ppb |
| 1 | Barium | | 2.7E+02 | 1.0E+03 | 0.0E+00 | 2.5E+03 | ppb |
| 1 | Benzene . | | 2.0E+01 | 5.0E+00 | 1.2E+00 | 0.0E+00 | ppb |
| 1 | Chromium | | 2.9E+01 | 5.0E+01 | 0.0E+00 | 1.8E+02 | ppb |
| 1 | Cobalt | • | 4.9E+01 | 0.0E+00 | 0.0E+00 | 0.0E+00 | ppb |
| 1 | Copper | | 1.7E+02 | 0.0E+00 | 0.0E+00 | 1.3E+03 | ppb |
| 1 | Fluorene | | 1.5E+02 | 0.0E+00 | 0.0E+00 | 1.4E+03 | ppb |
| 1 | Lead | | 5.4E+01 | 5.0E+01 | 0.0E+00 | 0.0E+00 | ppb |
| 1 | Manganese | | 4.0E+03 | 0.0E+00 | 0.0E+00 | 3.5E+03 | ppb |
| 1 | Naphthalene | | 8.7E+01 | 0.0E+00 | 0.0E+00 | 1.4E+02 | ppb |
| 1 | Nickel | | 6.9E+01 | 0.0E+00 | 0.0E+00 | 7.0E+02 | ppb |
| 1 | Phenanthrene | | 2.3E+02 | 0.0E+00 | 0.0E+00 | 0.0E+00 | ppb |
| 1 | Silver | | 1.4E+01 | 5.0E+01 | 0.0E+00 | 1.1E+02 | ppb |
| === | =========== | | | ====== | ======================================= | | :====: |
| | | | Observed | Release | Factor | 550 | |

Documentation for Well WHC01 (HC-3):

Significant data from the URS SI sampling, sample number WCHO1 collected from onsite monitoring well HC-3. Sample collected on 8/26/92. Significant data determined according to criteria in HRS Table 2-5.

Reference: 4

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GROUND WATER PATHWAY LIKELIHOOD OF RELEASE Unconfined shallow AQUIFER
Avery Railroad Dump and Roundhouse - 03/11/93

PRESCORE 1.0 - PRESCORE.TCL File 12/23/91 PAGE: 17 GROUND WATER PATHWAY LIKELIHOOD OF RELEASE Unconfined shallow AQUIFER Avery Railroad Dump and Roundhouse - 03/11/93

| DOT | ENT | AI ' | TΛ | DEI | FASE |
|-----|------|------|----|-----|------|
| rui | CRII | ML | ıu | REL | EMSE |

| \sim | nts | , i r | VMA | nt |
|--------|-----|-------|-----|----|

Containment Factor

10

Net Precipitation

Net Precipitation Factor

6

Depth to Aquifer

A. Depth of Hazardous Substances

9.00

feet

Documentation for Depth of Hazardous Substances:

Depth to contaminated oil layer on groundwater identified during SI sampling to occur at 9 feet in well ${\tt HC-3}$

Reference: 3

B. Depth to Aquifer from Surface

12.00

feet

Documentation for Depth to Aquifer from Surface :

Depth to unconfined aquifer under site found to be 12 to 16 feet bgs during Hart-Crowser monitoring well installation. Depth to oily layer in HC-3 was found to be 9 feet during SI sampling

Reference: 2, 3

C. Depth to Aquifer (B - A)

3.00

feet

PREscore 1.0 - PRESCORE.TCL File 12/23/91 GROUND WATER PATHWAY LIKELIHOOD OF RELEASE Unconfined shallow AQUIFER Avery Railroad Dump and Roundhouse - 03/11/93

Depth to Aquifer Factor

Travel Time

Are All Layers Karst?

0.00

Thickness of Layer(s) with Lowest Conductivity

Documentation for Thickness of Layers with Lowest Conductivity:

Shallow water under the site was determined to be unconfined.

Reference: 2

Hydraulic Conductivity (cm/sec)

0.0E-00

Documentation for Hydraulic Conductivity:

No hydraulic conductivity assigned due to unconfined water under site.

Reference: 2

Travel Time Factor

35

Potential to Release Factor

PRESCORE 1.0 - PRESCORE TCL File 12/23/91 PAGE: 19
GROUND WATER PATHWAY LIKELIHOOD OF RELEASE Belt Form Shales AQUIFER
Avery Railroad Dump and Roundhouse - 03/11/93

Aquifer: Belt Form Shales

Type of Aquifer: Non Karst

Overlaying Aquifer: 1

Interconnected with: 1

OBSERVED RELEASE

Distance

No. Well ID

Well Type

(miles) Level of Contamination

- N/A and/or data not specified

Observed Release Factor

C

PRESCORE 1.0 - PRESCORE.TCL File 12/23/91 PAGE: 20 GROUND WATER PATHWAY LIKELIHOOD OF RELEASE Belt Form Shales AQUIFER Avery Railroad Dump and Roundhouse - 03/11/93

| c | 'n. | TEN | UT. | TAI | TΛ | DEI | FASE |
|---|-----|-----|-----|-----|----|-----|------|
| | | | | | | | |

| Cont | ٥i | nment |
|------|----|-------|

Containment Factor

10

Net Precipitation

Net Precipitation Factor

6

Depth to Aquifer

A. Depth of Hazardous Substances

9.00

feet

Documentation for Depth of Hazardous Substances:

During URS Sampling, oily layer was encountered at 9 feet deep in monitoring well $\mbox{\sc HC-3}$.

Reference: 3

B. Depth to Aquifer from Surface

23.00 feet

Documentation for Depth to Aquifer from Surface:

Based on well logs for the Avery area, depth to water indicated at 23 (Packer well in Section 15) and 24 feet (BNR well in Section 17). Static water level indicated at 20 and 10 feet, respectively.

Reference: 2

C. Depth to Aquifer (B - A)

14.00

feet

PREscore 1.0 - PRESCORE.TCL File 12/23/91 GROUND WATER PATHWAY LIKELIHOOD OF RELEASE Belt Form Shales AQUIFER Avery Railroad Dump and Roundhouse - 03/11/93

Depth to Aquifer Factor

Travel Time

Are All Layers Karst?

Thickness of Layer(s) with Lowest Conductivity

13.00 feet

Documentation for Thickness of Layers with Lowest Conductivity:

Well logs for BNR and Packer indicated a 23 or 24 foot confining layer, (23 feet - first 10 feet from ground surface = 13 foot confining layer)

Reference: 2

Hydraulic Conductivity (cm/sec)

1.0E-08

Documentation for Hydraulic Conductivity:

Hydraulic conductivity of the 13 foot layer of shale (Packer well log and Potlatch well log show layers of shale, BNR well log layer definition unreadable) assumed from HRS Table 3-6 to equal 1E-8 cm/sec for shale materials

Reference: 2

Travel Time Factor

Potential to Release Factor

PRESCORE 1.0 - PRESCORE.TCL File 12/23/91 GROUND WATER PATHWAY WASTE CHARACTERISTICS Avery Railroad Dump and Roundhouse - 03/11/93

Source: 1 Avery site

Source Hazardous Waste Quantity Value: 8.96

| Hazardous Substance | Toxicity Value | Mobility Valúe | Toxicity/ Mobility Value |
|------------------------------|-------------------|-------------------|--------------------------------|
| Acenaphthene | 10 | 2.00E-03 | 2.00E-02 |
| Anthracene | 10 | 2.00E-07 | 2.00E-06 |
| Barium | 10000 | 1.00E-02 | 1.00E+02 |
| Benz(a)anthracene | 1000 | 2.00E-09 | 2.00E-06 |
| Bis (2-ethylhexyl) phthalate | 100 | 2.00E-07 | 2.00E-05 |
| Chrysene | 100 | 2.00E-09 | 2.00E-07 |
| Copper | 100 | 1.00E-02 | 1.00E+00 |
| Ethyl benzene | 10 | 1.00E-02 | 1.00E-01 |
| Fluorene | 100 | 2.00E-03 | 2.00E-01 |
| Lead | 10000 | 2.00E-05 | 2.00E-01 |
| -Naphthalene | 1000 . | 2.00E-03 | 2.00E+00 |
| PCBs | 10000 | 2.00E-09 | 2.00E-05 |
| Phenanthrene | 1 | 2.00E-05 | 2.00E-05 |
| Pyrene | 100 | 2.00E-09 | 2.00E-07 |
| Toluene | 10 | 1.00E-02 | 1.00E-01 |
| Xylene, o- | 10 | 1.00E-02 | 1.00E-01 |

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PRESCORE 1.0 - PRESCORE.TCL File 12/23/91 GROUND WATER PATHWAY WASTE CHARACTERISTICS Avery Railroad Dump and Roundhouse - 03/11/93

PAGE: 2

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Hazardous Substances Found in an Observed Release

Well Observed Release No. Hazardous Substance Toxicity Mobility Value Value Toxicity/ Mobility Value

⁻ N/A and/or data not specified

PREscore 1.0 - PRESCORE.TCL File 12/23/91 PAGE: 7 GROUND WATER PATHWAY WASTE CHARACTERISTICS Avery Railroad Dump and Roundhouse - 03/11/93

| Toxicity/Mobility Value from Source Hazardous Substances: | 1.00E+02 |
|---|----------|
| Toxicity/Mobility Value from Observed Release Hazardous Substances: | 1.00E+04 |
| Toxicity/Mobility Factor: | 1.00E+04 |
| Sum of Source Hazardous Waste Quantity Values: | 8.96E+00 |
| Hazardous Waste Quantity Factor: | 10 |
| Waste Characteristics Factor Category: | . 18 |

PRESCORE 1.0 - PRESCORE.TCL File 12/23/91 PAGE: 25 GROUND WATER PATHWAY TARGETS FOR AQUIFER Unconfined shallow Avery Railroad Dump and Roundhouse - 03/11/93

Population by Well

No. Well ID Sample Type (miles) Contamination Population

- N/A and/or data not specified

Level I Population Factor:

0.00

Level II Population Factor:

0.00

PRESCORE 1.0 - PRESCORE.TCL File 12/23/91 PAGE: 26 GROUND WATER PATHWAY TARGETS FOR AQUIFER Unconfined shallow Avery Railroad Dump and Roundhouse - 03/11/93

Potential Contamination by Distance Category

| Distance Category (miles) | Population | Value |
|------------------------------|------------|----------|
| > 0 to 1/4 | 0.0 | 0.00E+00 |
| > 1/4 to 1/2 | 0.0 | 0.00E+00 |
| > 1/2 to 1 | 0.0 | 0.00E+00 |
| > 1 to 2 | 0.0 | 0.00E+00 |
| > 2 to 3 | 0.0 | 0.00E+00 |
| > 3 to 4 | 0.0 | 0.00E+00 |

Nearest Well

Level of Contamination: N.A.

Nearest Well Factor: 0.00E+00

Resources

Resource Use: YES

Resource Factor: 5.00E+00

Wellhead Protection Area

No wellhead protection area

Wellhead Protection Area Factor: 0.00E+00

PRESCORE 1.0 - PRESCORE TCL File 12/23/91 PAGE: 27 GROUND WATER PATHWAY TARGETS FOR AQUIFER Belt Form Shales Avery Railroad Dump and Roundhouse - 03/11/93

Population by Well

Distance Level of

No. Well ID Sample Type (miles) Contamination Population

- N/A and/or data not specified

Level I Population Factor: 0.

0.00

Level II Population Factor:

0.00

PRESCORE 1.0 - PRESCORE.TCL File 12/23/91 PAGE: GROUND WATER PATHWAY TARGETS FOR AQUIFER Belt Form Shales Avery Railroad Dump and Roundhouse - 03/11/93

Potential Contamination by Distance Category

| Distance Category (miles) | Population | , Value |
|------------------------------|------------|----------|
| > 0 to 1/4 | 48.0 | 5.30E+00 |
| > 1/4 to 1/2 | . 50.0 | 3.30E+00 |
| > 1/2 to 1 | 75.0 | 1.70E+00 |
| > 1 to 2 | 12.0 | 3.00E-01 |
| > 2 to 3 | 0.0 | 0.00E+00 |
| > 3 to 4 | 0.0 | 0.00E+00 |

Potential Contamination Factor:

11.000

28

Nearest Well

Level of Contamination: Potential

Distance in miles: 0.00

Nearest Well Factor: 2.00E+01

Resources

Resource Use: NO

Resource Factor: 0.00E+00

Wellhead Protection Area

No wellhead protection area

Wellhead Protection Area Factor: 0.00E+00

PRESCORE 1.0 - PRESCORE.TCL File 12/23/91 SURFACE WATER PATHWAY SEGMENT SUMMARY Avery Railroad Dump and Roundhouse - 03/11/93

PAGE: 29

| No. Segment ID | Segment Type | Water Type | Point | | Average Flow (cfs) | |
|-----------------|--------------|---------------|-------|-------|--------------------------|---|
| 1 St. Joe River | River | Fresh | 0.00 | 15.00 | 2408 | • |

Documentation for segment: St. Joe River:

Flow data from PA = 2408 cfs

Reference: 2

.

PRESCORE 1.0 - PRESCORE.TCL File 12/23/91 PAGE: 30
SURFACE WATER PATHWAY OVERLAND FLOW/FLOOD COMPONENT LIKELIHOOD OF RELEASE
Avery Railroad Dump and Roundhouse - 03/11/93 PAGE: 30

OBSERVED RELEASE

Sample Type Distance Level of Contamination (miles) DW HFC Env No. Sample ID

- N/A and/or data not specified

Observed Release Factor 0

PRESCORE 1.0 - PRESCORE.TCL File 12/23/91 PAGE: 31 SURFACE WATER PATHWAY OVERLAND FLOW/FLOOD COMPONENT LIKELIHOOD OF RELEASE Avery Railroad Dump and Roundhouse - 03/11/93

POTENTIAL TO RELEASE

Potential to Release by Overland Flow

Containment

| No. | Source ID | HWQ Value | Containment Value |
|-----|------------|---|---|
| 1 | Avery site | 8.96E+00 | 10 |
| === | • | ======================================= | , ==================================== |

Containment Factor:

10

Documentation for Overland Flow Containment, Source Avery site:

No surface water containment on site.

Reference: 1, 2

PRESCORE 1.0 - PRESCORE.TCL File 12/23/91 PAGE: 32 SURFACE WATER PATHWAY OVERLAND FLOW/FLOOD COMPONENT LIKELIHOOD OF RELEASE Avery Railroad Dump and Roundhouse - 03/11/93

| Distance to Surface Water | |
|---|---|
| Distance to Surface Water: | 0.0 feet |
| Distance to Surface Water Factor: | 25 |
| Documentation for Distance to Surface Water: | |
| Oily seep was observed during site site oily material onto the riverbank and int a low flow season (August), it may be as seasons, the oily seep is under water an river. | o the river, this was dur sumed that during high flo |

Runoff

Reference: 3

A. Drainage Area:

B. 2-year, 24-hour Rainfall:

C. Soil Group:
Medium-textured soils with moderate infiltration rates

Runoff Factor:

O

Potential to Release by Overland Flow Factor:

250

PRESCORE 1.0 - PRESCORE.TCL File 12/23/91 PAGE: 33 SURFACE WATER PATHWAY OVERLAND FLOW/FLOOD COMPONENT LIKELIHOOD OF RELEASE Avery Railroad Dump and Roundhouse - 03/11/93

Potential to Release by Flood

| No. Source ID | HWQ Value | Flood Containment Value | Flood Frequency Value | Potential to Release by Flood |
|------------------|--------------|-------------------------------|-----------------------------|-------------------------------------|
| 1 Avery site | 8.96E+00 | 10 | 25 | 250 |
| **************** | ************ | | :\$2 2222 22 | |

Potential to Release by Flood Factor: 250

Documentation for Flood Containment, Source Avery site:

No containment against flood present.

Reference: 1,3

Documentation for Flood Frequency, Source Avery site:

No flood maps available for this area, the site was assumed to be in the 100-year flood plain due to anecdotal information in the PA (no recollection by area residents of the site flooded)

Reference: 2

PRESCORE 1.0 - PRESCORE.TCL File 12/23/91 PAGE: 34
SW PATHWAY: OVERLAND/FLOOD DRINKING WATER THREAT WASTE CHARACTERISTICS
Avery Railroad Dump and Roundhouse - 03/11/93

Source: 1 Avery site

Source Hazardous Waste Quantity Value: 8.96

| Hazardous Substance | Toxicity Value | Persistence Value | Toxicity/ Persistence Value |
|------------------------------|-------------------|----------------------|-----------------------------------|
| Acenaphthene | 10 | 4.00E-01 | 4.00E+00 |
| Anthracene | 10 | 4.00E-01 | 4.00E+00 |
| Barium | 10000 | 1.00E+00 | 1.00E+04 |
| Benz(a)anthracene | 1000 | 1.00E+00 | 1.00E+03 |
| Bis (2-ethylhexyl) phthalate | 100 | 1.00E+00 | 1.00E+02 |
| Chrysene | 0 | 1.00E+00 | 0.00E+00 |
| Copper | 100 | 1.00E+00 | 1.00E+02 |
| Ethyl benzene | 10 | 4.00E-01 | 4.00E+00 |
| Fluorene | 100 | 1.00E+00 | 1.00E+02 |
| Lead | 10000 | 1.00E+00 | 1.00E+04 |
| Naphthalene | 1000 | 4.00E-01 | 4.00E+02 |
| PCBs | 10000 | 1.00E+00 | 1.00E+04 |
| Phenanthrene | 1 | 4.00E-01 | 4.00E-01 |
| Pyrene | 100 | 1.00E+00 | 1.00E+02 |
| Toluene | 10 | 4.00E-01 | 4.00E+00 |
| Xylene, o- | 10 | 4.00E-01 | 4.00E+00 |

PRESCORE 1.0 - PRESCORE.TCL File 12/23/91 PAGE: 3
SW PATHWAY: OVERLAND/FLOOD DRINKING WATER THREAT WASTE CHARACTERISTICS
Avery Railroad Dump and Roundhouse - 03/11/93 PAGE: 35

Hazardous Substances Found in an Observed Release

Sample Observed Release Hazardous Substance Toxicity Value

Persistence Toxicity/ Value Persistence

Value

⁻ N/A and/or data not specified

PRESCORE 1.0 - PRESCORE.TCL File 12/23/91 PAGE: 36
SW PATHWAY: OVERLAND/FLOOD DRINKING WATER THREAT WASTE CHARACTERISTICS
Avery Railroad Dump and Roundhouse - 03/11/93

| Toxicity/Persistence Value from Source Hazardous Substances: | 1.00E+04 |
|--|----------|
| Toxicity/Persistence Value from Observed Release Hazardous Substances: | 0.00E+00 |
| Toxicity/Persistence Factor: | 1.00E+04 |
| Sum of Source Hazardous Waste Quantity Values: | 8.96E+00 |
| Hazardous Waste Quantity Factor: | 10 .1 |
| Waste Characteristics Factor Category: | 18 |

PRESCORE 1.0 - PRESCORE.TCL File 12/23/91 PAGE: 37
SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT DRINKING WATER THREAT TARGETS
Avery Railroad Dump and Roundhouse - 03/11/93

Level I Concentrations

- N/A and/or data not specified

Level II Concentrations

- N/A and/or data not specified

Most Distant Level I Sample

- N/A and/or data not specified

Most Distant Level II Sample

- N/A and/or data not specified

PRESCORE 1.0 - PRESCORE TCL File 12/23/91 PAGE: 38
SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT DRINKING WATER THREAT TARGETS
Avery Railroad Dump and Roundhouse - 03/11/93

Level I Concentrations

Intake

Distance Along the
In-water Segment from the
Probable Point of Entry (miles) Population

- N/A and/or data not specified

Population Served by Level I Intakes:

0.0

Level I Population Factor: 0.00E+00

PRESCORE 1.0 - PRESCORE.TCL File 12/23/91 PAGE: 3
SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT DRINKING WATER THREAT TARGETS PAGE: 39 Avery Railroad Dump and Roundhouse - 03/11/93

Level II Concentrations

Distance Along the In-water Segment from the

Intake

Probable Point of Entry (miles) Population

- N/A and/or data not specified

Population Served by Level II Intakes: 0.0

Level II Population Factor: 0.00E+00

PRESCORE 1.0 - PRESCORE.TCL File 12/23/91 PAGE: 40
SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT DRINKING WATER THREAT TARGETS
Avery Railroad Dump and Roundhouse - 03/11/93

Potential Contamination

Intake ID

Average Annual Flow (cfs)

Population. Served

- N/A and/or data not specified

Type of Surface Water Body Total Population Pilution-Weighted Population

- N/A and/or data not specified

Dilution-Weighted Population Served

by Potentially Contaminated Intakes:

0.0

Potential Contamination Factor:

0.0

Nearest Intake

Location of Nearest Drinking Water Intake: N.A.

Nearest Intake Factor: (

Resources

Resource Use: NO

Resource Value: 0.00E+00

Documentation for Resources: .

No resources identified, as specified in HRS.

Reference: 3

PRESCORE 1.0 - PRESCORE.TCL File 12/23/91 PAGE: 41
SW PATHWAY: OVERLAND/FLOOD HUMAN FOOD CHAIN THREAT WASTE CHARACTERISTICS
Avery Railroad Dump and Roundhouse - 03/11/93

Source: 1 Avery site

Source Hazardous Waste Quantity Value: 8.96

| Hazardous Substance | Toxicity Value | Persistence Value | 8io- accum. Value | Toxicity/ Persistence/ Bioaccum. Value |
|------------------------------|-------------------|----------------------|-------------------------|---|
| Acenaphthene | 10 | 4.00E-01 | 5.00E+02 | 2.00E+03 |
| Anthracene | 10 | 4.00E-01 | 5.00E+03 | 2.00E+04 |
| Arsenic | 10000 | 1.00E+00 | 5.00E+00 | 5.00E+04 |
| Barium | 10000 | 1.00E+00 | 5.00E-01 | 5.00E+03 |
| Benz(a)anthracene | 1000 | 1.00E+00 | 5.00E+04 | 5.00E+07 |
| Benzene | 100 | 4.00E-01 | 5.00E+03 | 2.00E+05 |
| Bis (2-ethylhexyl) phthalate | 100 | 1.00E+00 | 5.00E+03 | 5.00E+05 |
| Chromium | 10000 | 1.00E+00 | 5.00E+00 | 5.00E+04 |
| Chrysene | 0 | 1.00E+00 | 5.00E+02 | 0.00E+00 |
| Cobalt | 100 | 1.00E+00 | 5.00E+03 | 5.00E+05 |
| Copper | 100 | 1.00E+00 | 5.00E+04 | 5.00E+06 |
| Ethyl benzene | 10 | 4.00E-01 | 5.00E+01 | 2.00E+02 |
| Fluorene | 100 | 1.00E+00 | 5.00E+03 | 5.00E+05 |
| Lead | 10000 | 1.00E+00 | 5.00E+01 | 5.00E+05 |
| Manganese | 10000 | 1.00E+00 | 5.00E+04 | 5.00E+08 |
| Naphthalene | 1000 | 4.00E-01 | 5.00E+02 | 2.00E+05 |
| Nickel | 10000 | 1.00E+00 | 5.00E-01 | 5.00E+03 |
| PCBs | 10000 | 1.00E+00 | 5.00E+04 | 5.00E+08 |
| Phenanthrene | 1 | 4.00E-01 | 5.00E+01 | 2.00E+01 |
| Pyrene | 100 | 1.00E+00 | 5.00E+01 | 5.00E+03 |
| Silver | 1000 | 1.00E+00 | 5.00E+01 | 5.00E+04 |
| Toluene ' | 10 | 4.00E-01 | 5.00E+01 | 2.00E+02 |
| Xvlene. o- | 10 | 4.00E-01 | 5.00E+01 | 2.00E+02 |

PRESCORE 1.0 - PRESCORE.TCL File 12/23/91 PAGE: 42 SW PATHWAY: OVERLAND/FLOOD HUMAN FOOD CHAIN THREAT WASTE CHARACTERISTICS Avery Railroad Dump and Roundhouse - 03/11/93

Hazardous Substances Found in an Observed Release

Sample Observed Release
No. Hazardous Substance

Toxicity Persistence Bio-Value Value accum. Toxicity/ Persistence/ Bioaccum. Value

Value

- N/A and/or data not specified

PRESCORE 1.0 - PRESCORE.TCL File 12/23/91 PAGE: 43 SW PATHWAY: OVERLAND/FLOOD HUMAN FOOD CHAIN THREAT WASTE CHARACTERISTICS Avery Railroad Dump and Roundhouse - 03/11/93

| Toxicity/Persistence/Bioaccumulation Value from Source Hazardous Substances: | 5.00E+08 |
|--|----------|
| Toxicity/Persistence/Bioaccumulation Value from Observed Release Hazardous Substances: | 0.00E+00 |
| Toxicity/Persistence/Bioaccumulation Factor: | 5.00E+08 |
| Sum of Source Hazardous Waste Quantity Values: | 8.96E+00 |
| Hazardous Waste Quantity Factor: | 10 |
| Waste Characteristics Factor Category: | 180 |

PRESCORE 1.0 - PRESCORE.TCL File 12/23/91 PAGE: 44
SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT HUMAN FOOD CHAIN THREAT TARGETS
Avery Railroad Dump and Roundhouse - 03/11/93

Level I Concentrations

- N/A and/or data not specified

Level II Concentrations

- N/A and/or data not specified

Most Distant Level I Sample

- N/A and/or data not specified

Most Distant Level II Sample

- N/A and/or data not specified

PRESCORE 1.0 - PRESCORE.TCL File 12/23/91 PAGE: 45
SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT HUMAN FOOD CHAIN THREAT TARGETS Avery Railroad Dump and Roundhouse - 03/11/93

Level I Concentrations

Fishery

Annual Production Human Food Chain Population Value

(pounds)

- N/A and/or data not specified

Sum of Human Food Chain Population Values: 0.00E+00

Level I Concentrations Factor: 0.00E+00

PRESCORE 1.0 - PRESCORE.TCL File 12/23/91 PAGE: 46
SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT HUMAN FOOD CHAIN THREAT TARGETS
Avery Railroad Dump and Roundhouse - 03/11/93

Level II Concentrations

Annual Production Fishery (pounds)

Human Food Chain Population Value

- N/A and/or data not specified

Sum of Human Food Chain Population Values: 0.00E+00

Level II Concentrations Factor: 0.00E+00

PRESCORE 1.0 - PRESCORE.TCL File 12/23/91 PAGE: 47
SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT HUMAN FOOD CHAIN THREAT TARGETS
Avery Railroad Dump and Roundhouse - 03/11/93

Potential Contamination

| Fishery | Annnual Production (pounds) | Surface | Average Annual Flow (cfs) | | Dilution Weight (Di) | Pi*Di |
|-----------------|-----------------------------------|---------|------------------------------------|------|----------------------------|----------|
| 1 St. Joe River | 10650.0 | River | 2408 | 31.0 | 1.00E-03 | 3.10E-02 |

Sum of (Pi*Di): 3.10E-02

Potential Human Food Chain Contamination Factor: 3.10E-03

Documentation for St. Joe River Fishery:

Fishery production for the St. Joe River, data from the PA, estimated 710 lbs of fish/mile * 15 miles = 10650 lbs fish per year

Reference: 2

Food Chain Individual

Location of Nearest Fishery: St. Joe River Distance from the Probable Point of Entry: 0.00 miles Type of Surface Water Body: River Dilution Weight: 0.0010000 Level of Contamination: Potential

Food Chain Individual Factor: 0.00

Documentation for St. Joe River:

Flow data from PA = 2408 cfs

Reference: 2

PRESCORE 1.0 - PRESCORE.TCL File 12/23/91 PAGE: 48
SW PATHWAY: OVERLAND FLOW/FLOOD ENVIRONMENTAL THREAT WASTE CHARACTERISTICS
Avery Railroad Dump and Roundhouse - 03/11/93

Source: 1 Avery site

Source Hazardoùs Waste Quantity Value: 8.96

| Hazardous Substance | Eco- toxicity Value | Persistence Value | Bio- accum. Value | Ecotoxicity/ Persistence/ Bioaccum. Value |
|------------------------------|---------------------------|----------------------|-------------------------|--|
| Acenaphthene | 10000 | 4.00E-01 | 5.00E+02 | 2.00E+06 |
| Anthracene | 10000 | 4.00E-01 | 5.00E+03 | 2.00E+07 |
| Arsenic | 10 | 1.00E+00 | 5.00E+01 | 5.00E+02 |
| Barium | 1 | 1.00E+00 | 5.00E-01 | 5.00E-01 |
| Benz(a)anthracene | 10000 | 1.00E+00 | 5.00E+04 | 5.00E+08 |
| Benzene | 10000 | 4.00E-01 | 5.00E+02 | 2.00E+06 |
| Bis (2-ethylhexyl) phthalate | 1000 | 1.00E+00 | 5.00E+04 | 5.00E+07 |
| Chromium | 10000 | 1.00E+00 | 5.00E+00 | 5.00E+04 |
| Chrysene | 0 | 1.00E+00 | 5.00E+02 | 0.00E+00 |
| Cobalt | 0 | 1.00E+00 | 5.00E+03 | 0.00E+00 |
| Copper | 100 | 1.00E+00 | 5.00E+04 | 5.00E+06 |
| Ethyl benzene | 100 | 4.00E-01 | 5.00E+01 | 2.00E+03 |
| Fluorene | 1000 | 1.00E+00 | 5.00E+03 | 5.00E+06 |
| Lead | 1000 | 1.00E+00 | 5.00E+03 | 5.00E+06 |
| Manganese | 0 | 1.00E+00 | 5.00E+04 | 0.00E+00 |
| Naphthalene | 1000 | 4.00E-01 | 5.00E+02 | 2.00E+05 |
| Nickel | 10 | 1.00E+00 | 5.00E+02 | 5.00E+03 |
| PCBs | 10000 | 1.00E+00 | 5.00E+04 | 5.00E+08 |
| Phenanthrene | 1000 | 4.00E-01 | 5.00E+03 | 2.00E+06 |
| Pyrene | . 0 | 1.00E+00 | 5.00E+01 | 0.00E+00 |
| Silver | 10000 | 1.00E+00 | 5.00E+01 | 5.00E+05 |
| Toluene | 100 | 4.00E-01 | 5.00E+01 | 2.00E+03 |
| Xylene, o- | 100 | 4.00E-01 | 5.00E+01 | 2.00E+03 |

PRESCORE 1.0 - PRESCORE.TCL File 12/23/91 PAGE: 49 SW PATHWAY: OVERLAND FLOW/FLOOD ENVIRONMENTAL THREAT WASTE CHARACTERISTICS Avery Railroad Dump and Roundhouse - 03/11/93

Hazardous Substances Found in an Observed Release

Sample Observed Release Hazardous Substance No.

Eco-Value

toxicity Persistence Bio-Value accum.

Value

Ecotoxicity/ Persistence/ Bioaccum. Value

⁻ N/A and/or data not specified

PRESCORE 1.0 - PRESCORE.TCL File 12/23/91 PAGE: 50 SW PATHWAY: OVERLAND FLOW/FLOOD ENVIRONMENTAL THREAT WASTE CHARACTERISTICS Avery Railroad Dump and Roundhouse - 03/11/93

| Ecotoxicity/Persistence/Bioaccummulation Value from Source Hazardous Substances: | .5.00E+08 |
|--|-----------|
| Ecotoxicity/Persistence/Bioaccummulation Value from Observed Release Hazardous Substances: | 0.00E+00 |
| Ecotoxicity/Persistence/Bioaccummulation Factor: | 5.00E+08 |
| Sum of Source Hazardous Waste Quantity Values: | 8.96E+00 |
| Hazardous Waste Quantity Factor: | 10 . |
| Waste Characteristics Factor Category: | 180 |

PRESCORE 1.0 - PRESCORE.TCL File 12/23/91 PAGE: 51
SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT ENVIRONMENTAL THREAT TARGETS
Avery Railroad Dump and Roundhouse - 03/11/93

Level I Concentrations .

- N/A and/or data not specified

Level II Concentrations

- N/A and/or data not specified

Most Distant Level I Sample

- N/A and/or data not specified

Most Distant Level II Sample

- N/A and/or data not specified

PRESCORE 1.0 - PRESCORE.TCL File 12/23/91 PAGE: 52
SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT ENVIRONMENTAL THREAT TARGETS
Avery Railroad Dump and Roundhouse - 03/11/93

Level I Concentrations

| Sensitive Envir | ronment | Distance from Point of Entr Sensitive Env | y to | Sensitive Environment Value |
|-----------------|-------------|---|-------------|-----------------------------------|
| - N/A and/or | data not s | pecified | | |
| Sum of Sensitiv | e Environme | nts Values: | | 0 |
| Wetlands | | | | |
| | Dista | nce from Probabl | e | |
| | Point | of Entry to | We1 | : lands |
| Wetland | Wetla | nd (miles) | Fre | ontage (miles) |
| - N/A and/or | data not s | pecified | | |
| Total Wetlands | Frontage: | 0.00 Miles | Total Wetla | ands Value: 0 |

Level I Concentrations Factor: 0.00E+00

PRESCORE 1.0 - PRESCORE.TCL File 12/23/91 PAGE: 53
SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT ENVIRONMENTAL THREAT TARGETS
Avery Railroad Dump and Roundhouse - 03/11/93

Level II Concentrations

| Sensitive Envir | onment | Distance from Point of Entr Sensitive Env | y to | Sensitive Environment Value |
|-----------------|--------------|---|--------------|-----------------------------------|
| - N/A and/or | data not s | pecified | | |
| Sum of Sensitiv | e Environmen | nts Values: | <u> </u> | 0 |
| Wetlands | | | | |
| | Dista | nce from Probabl | | |
| | | of Entry to | | ands |
| Wetland | Wetla | nd (miles) | . From | ntage (miles) |
| - N/A and/or | data not s | pecified | | |
| Total Wetlands | Frontage: | 0.00 Miles | Total Wetlar | nds Value: 0 |

Level II Concentrations Factor: 0.00E+00

PRESCORE 1.0 - PRESCORE.TCL File 12/23/91 PAGE: 54
SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT ENVIRONMENTAL THREAT TARGETS
Avery Railroad Dump and Roundhouse - 03/11/93

Potential Contamination

Sensitive Environments

Type of Surface Water Body

Sensitive Environment

Sensitive

Environment

Value

Wetlands

Type of Surface

Water Body

Sensitive Environment

Wetlands Frontage Wetlands Value

- N/A and/or data not specified

PRESCORE 1.0 - PRESCORE.TCL File 12/23/91 PAGE: 55
SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT ENVIRONMENTAL THREAT TARGETS
Avery Railroad Dump and Roundhouse, - 03/11/93

Sum of

Type of Surface Water Body Sum of Sens. Wetland Dilution Environment Frontage Weight

Values(Sj) Values(Wj) (Dj)

Dj(Wj+Sj)

- N/A and/or data not specified

Sum of Dj(Wj+Sj):

0.00E+00

Sum of Dj(Wj+Sj)/10:

0.00E+00

Potential Contamination Sensitive Environment Factor: 2.50E-03

PRESCORE 1.0 - PRESCORE.TCL File 12/23/91 PAGE: 56 SOIL EXPOSURE PATHWAY RESIDENT POPULATION THREAT LIKELIHOOD OF EXPOSURE Avery Railroad Dump and Roundhouse - 03/11/93

Likelihood of Exposure

No. Source ID Level of Contamination

1 Avery site Level I

Likelihood of Exposure Factor: 550

Documentation for Area of Contamination, Source Avery site:

Assumed to be entire site soils.

Reference: 1,3

| Sour No. | ce Hazardous Substance | Depth (ft.) | Concent. | Cancer | RFD | Units |
|-------------|------------------------------|----------------|----------|---------|---------|-------|
| 1 | Acenaphthene | < 2 | 8.7E+00 | 0.0E+00 | 3.5E+04 | ppm |
| 1 | Anthracene | < 2 | 2.6E+00 | 0.0E+00 | 1.7E+05 | ppm |
| 1 | Barium | < 2 | 3.0E+02 | 0.0E+00 | 4.1E+04 | ppm |
| 1 | Benz(a)anthracene | < 2 | 2.2E+00 | 0.0E+00 | 0.0E+00 | ppm |
| 1 | Bis (2-ethylhexyl) phthalate | < 2 | 6.1E+00 | 4.2E+01 | 1.2E+04 | ppm |
| 1 | Chrysene | < 2 | 2.5E+00 | 0.0E+00 | 0.0E+00 | ррт |
| 1 | Copper | < 2 | 3.8E+02 | 0.0E+00 | 2.2E+04 | ppm |
| 1 | Ethyl benzene | < 2 | 6.5E-02 | 0.0E+00 | 5.8E+04 | ppm |
| 1 | fluorene | < 2 | 1.1E+01 | 0.0E+00 | 2.3E+04 | ррт |
| 1 | Lead | < 2 | 5.3E+02 | 0.0E+00 | 0.0E+00 | ppm |
| 1 | Naphthalene | < 2 | 6.0E+00 | 0.0E+00 | 2.3E+03 | |
| 1 | PCBs | < 2 | 8.7E+01 | 7.6E-02 | 0.0E+00 | ррт |
| 1 | Phenanthrene | < 2 | 3.1E+01 | 0.0E+00 | 0.0E+00 | ppm |
| 1 | Pyrene | < 2 | 5.9E+00 | 0.0E+00 | 1.7E+04 | ppm |
| 1 | Toluene | < 2 | 4.9E-02 | 0.0E+00 | 1.2E+05 | ррп |
| 1 | Xylene, o- | < 2 | 1.6E+00 | 0.0E+00 | 1,2E+06 | ppm |

Documentation for Source Avery site, Contaminants:

Significant data reported for site soil samples collected 8/26/92, significance determined based on criteria in HRS Table 2-5.

Reference:

PRESCORE 1.0 - PRESCORE TCL File 12/23/91 PAGE: 57 SOIL EXPOSURE PATHWAY RESIDENT POPULATION THREAT WASTE CHARACTERISTICS Avery Railroad Dump and Roundhouse - 03/11/93

Source: 1 Avery site

Source Hazardous Waste Quantity Value: 8.96

| | oxicity alue | |
|------------------------------|-----------------|---|
| Acenaphthene | 10 | |
| Anthracene | - 10 | |
| Barium | 10000 | |
| Benz(a)anthracene | 1000 | |
| Bis (2-ethylhexyl) phthalate | 100 | |
| Chrysene | 0 | • |
| Copper | 100 | • |
| Ethyl benzene | 10 | |
| Fluorene | 100 | |
| Lead | 10000 | |
| Naphthallene | 1000 | |
| PCBs | 10000 | |
| Phenanthrene | 1 | |
| Pyrene | 100 | |
| Toluene | 10 | |
| Xylene, o- | 10 | |

PRESCORE 1.0 - PRESCORE.TCL File 12/23/91 PAGE: 58 SOIL EXPOSURE PATHWAY RESIDENT POPULATION THREAT WASTE CHARACTERISTICS Avery Railroad Dump and Roundhouse - 03/11/93

| Toxicity Factor: | 1.00E+04 |
|--|----------|
| Sum of Source Hazardous Waste Quantity Values: | 8.96E+00 |
| Hazardous Waste Quantity Factor: | 10 |
| Waste Characteristics Factor Category: | 18 |

PRESCORE 1.0 - PRESCORE.TCL file 12/23/91 PAGE: 59 SOIL EXPOSURE PATHWAY RESIDENT POPULATION THREAT TARGETS Avery Railroad Dump and Roundhouse - 03/11/93

Targets

Level I Population:

1.0

Value:

10.00

Documentation for Level 1 Population:

One resident is reported to live on the site year-round.

Reference: 1,2

Level II Population:

0.0

Value:

0.00

Workers:

20.0

Value:

5.00

Documentation for Workers:

Assumed maximum number of site workers reported at this site since it was purchased by Potlatch (20 people)

Reference: 1,3

Resident Individual:

Level I

Value:

50.00

Resources:

NO

Value:

0.00

Terrestial Sensitive Environment

Value

- N/A and/or data not specified

Terrestrial Sensitive Environments Factor: 0.00

PRESCORE 1.0 - PRESCORE.TCL File 12/23/91 PAGE: 60 SOIL EXPOSURE PATHWAY NEARBY POPULATION THREAT LIKELIHOOD OF EXPOSURE Avery Railroad Dump and Roundhouse - 03/11/93

Likelihood of Exposure

| No. | Source ID | Level of Contamination | Attractiveness/ Accessibility | Area of Contam. (sq. feet) |
|-----|---------------|--|----------------------------------|-------------------------------|
| 1 | Avery site | Level I | 50 | 304500 |
| Sum | of Eligible A | eness/Accessibility reas Of Contamination tion Value: 60 | | 304500 |

Likelihood of Exposure Factor Category: 125

Documentation for Attractiveness/Accessibility, Source Avery site:

No soil containment on site, no fence around site, observed area youths crossing site for access to the river and wildlife on-site (mule deer) during site sampling

Reference: 1,2,3

| Source No. | ce Hazardous Substance | Depth (ft.) | Concent. | Cancer | RFD | Units |
|---------------|------------------------------|----------------|----------|---------|---------|-------|
| 1 | Acenaphthene | < 2 | 8.7E+00 | 0.0E+00 | 3.5E+04 | ppm . |
| 1 | Anthracene | < 2 | 2.6E+00 | 0.0E+00 | 1.7E+05 | ppm |
| 1 | Barium | < 2 | 3.0E+02 | 0.0E+00 | 4.1E+04 | ppm |
| 1 | Benz(a)anthracene | < 2 | 2.2E+00 | 0.0E+00 | 0.0E+00 | ppm |
| 1 | Bis (2-ethylhexyl) phthalate | < 2 | 6.1E+00 | 4.2E+01 | 1.2E+04 | ppm |
| 1 | Chrysene | <. 2 | 2.5E+00 | 0.0E+00 | 0.0E+00 | ppm |
| 1 | Copper | < 2 | 3.8E+02 | 0.0E+00 | 2.2E+04 | ppm |
| 1 | Ethyl benzene | < 2 | 6.5E-02 | 0.0E+00 | 5.8E+04 | ppm |
| 1 | Fluorene | < 2 | 1.1E+01 | 0.0E+00 | 2.3E+04 | ppm |
| 1 | Lead | < 2 | 5.3E+02 | 0.0E+00 | 0.0E+00 | ppm |
| 1 | Naphthalene | < 2 | 6.0E+00 | 0.0E+00 | 2.3E+03 | ppm |
| 1 | PCBs | < 2 | 8.7E+01 | 7.6E-02 | 0.0E+00 | ppm |
| 1 | Phenanthrene | < 2 | 3.1E+01 | 0.0E+00 | 0.0E+00 | ppm |
| 1 | Pyrene | < 2 | 5.9E+00 | 0.0E+00 | 1.7E+04 | ppm |
| 1. | Toluene | < 2 | 4.9E-02 | 0.0E+00 | 1.2E+05 | ppm |
| 1 | Xylene, o- | < 2 | 1.6E+00 | 0.0E+00 | 1.2E+06 | ppm |

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SOIL EXPOSURE PATHWAY NEARBY POPULATION THREAT LIKELIHOOD OF EXPOSURE
Avery Railroad Dump and Roundhouse - 03/11/93

Documentation for Source Avery site, Contaminants:

Significant data reported for site soil samples collected 8/26/92, significance determined based on criteria in HRS Table 2-5.

Reference:

PRESCORE 1.0 - PRESCORE.TCL File 12/23/91 PAGE: 62 SOIL EXPOSURE PATHWAY NEARBY POPULATION THREAT WASTE CHARACTERISTICS Avery Railroad Dump and Roundhouse - 03/11/93

Source: 1 Avery site

Source Hazardous Waste Quantity Value: 8.96

| Hazardous Substance | Toxicity Value | |
|----------------------------|-------------------|-----|
| Acenaphthene | 10 | |
| Anthracene | . 10 | |
| Barium | 10000 | |
| Benz(a)anthracene | 1000 | |
| Bis (2-ethylhexyl) phthala | ate 100 | |
| Chrysene | 0 | |
| Copper | 100 | |
| Ethyl benzene | 10 | · · |
| Fluorene | 100 | , |
| Lead | 10000 | |
| Naphthalene | 1000 | |
| PCBs | 10000 | |
| Phenanthrene | 1 | |
| Pyrene | 100 | |
| Toluene | · 10 | |
| Xylene, o- | 10 | |

PRESCORE 1.0 - PRESCORE.TCL File 12/23/91 PAGE: 63 SOIL EXPOSURE PATHWAY NEARBY POPULATION THREAT WASTE CHARACTERISTICS Avery Railroad Dump and Roundhouse - 03/11/93

| Toxicity Factor: | | 1.00E+04 |
|-------------------------------------|-------------|----------|
| Sum of Source Hazardous Waste Quant | ity Values: | 8.96E+00 |
| Hazardous Waste Quantity Factor: | | 10 |
| Waste Characteristics Factor Catego | ory: | 18 |

PRESCORE 1.0 - PRESCORE.TCL File 12/23/91 PAGE: 64 SOIL EXPOSURE PATHWAY NEARBY POPULATION THREAT TARGETS Avery Railroad Dump and Roundhouse - 03/11/93

Nearby Individual

Population within 1/4 mile:

47.0

Nearby Individual Value:

0.0

Population Within 1 Mile

| Travel Distance Category | Number of People | Value | • |
|--------------------------|------------------|-------|---|
| > 0 to 1/4 mile | 47.0 | 0.1 | |
| > 1/4 to 1/2 mile | 50.0 | 0.1 | |
| > 1/2 to 1 mile | 75.0 | 0.0 | |

Population Within 1 Mile Factor: 0.2

Documentation for Population > 0 to 1/4 mile Distance Category:

Resident population estimated from groundwater population, excluding the on-site residential population of 1 year-round resident.

Reference: 2

PREscore 1.0 - PRESCORE.TCL File 12/23/91 AIR PATHWAY LIKELIHOOD OF RELEASE Avery Railroad Dump and Roundhouse - 03/11/93

OBSERVED RELEASE

No. Sample ID

Distance -

(miles) Level of Contamination

- N/A and/or data not specified

Observed Release Factor: 0

PRESCORE 1.0 - PRESCORE.TCL File 12/23/91 AIR PATHWAY LIKELIHOOD OF RELEASE Avery Railroad Dump and Roundhouse - 03/11/93

GE: 6

66

Gas Migration Potential

GAS POTENTIAL TO RELEASE

| | | Gas Contain | Source Migrtn. | | Gas Potential to Rel. | |
|------------|-------------------|----------------|----------------|--------------|-----------------------------|-----------------|
| Source ID | Source Type | Value (A) | Value (B) | Value (C) | | Value A(B+C) |
| Avery site | Contaminated Soil | 10 | 19 | 17 | 36 | 360 |

Gas Potential to Release Factor:

360

Documentation for Gas Containment, Source Avery site:

No containment for release of gas at this site. Air pathway not considered in PA.

Reference: 1,2,3

...

PRESCORE 1.0 - PRESCORE.TCL File 12/23/91 AIR PATHWAY LIKELIHOOD OF RELEASE Avery Railroad Dump and Roundhouse - 03/11/93

Source: Avery site

| Gaseous Hazardous Substance | Hazardous Substance Gas Migration Potential Value |
|------------------------------|--|
| Acenaphthene | 11 |
| Anthracene | 6 |
| Benz(a)anthracene | 6 |
| Bis (2-ethylhexyl) phthalate | 6 |
| Chrysene | 6 |
| Ethyl benzene | 17 |
| Fluorene | 11 |
| Naphthalene | 11 |
| Phenanthrene | 11 |
| Pyrene . | 6 |
| Toluene | 17 |
| Xylene, o- | 17 |

Average of Gas Migration Potential Value for 3 Hazardous Substances: 17.000

Gas Migration Potential Value From Table 6-7:

PAGE:

17

PRESCORE 1.0 - PRESCORE.TCL File 12/23/91 AIR PATHWAY LIKELIHOOD OF RELEASE Avery Railroad Dump and Roundhouse - 03/11/93

PAGE:

PARTICULATE POTENTIAL TO RELEASE

| Source ID | Source Type | Partic. Contain Value (A) | | Migrtn Potent | Sum | Partic. Potential to Rel. Value A(B+C) |
|------------|-------------------|------------------------------------|----|------------------|-----|--|
| Avery site | Contaminated Soil | 10 | 22 | 11 | 33 | 330 |

Particulate Migration Potential

Particulate Potential to Release Factor:

330

Documentation for Particulate Containment, Source Avery site:

No containment for particulates at this site. Air pathway not considered in the PA. $\,$

Reference: 1,2,3

Documentation for Particulate Migration Potential:

Determined from Figure 6-2 in HRS.

Reference:

PREscore 1.0 - PRESCORE.TCL File 12/23/91 AIR PATHWAY LIKELIHOOD OF RELEASE Avery Railroad Dump and Roundhouse - 03/11/93

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Source: Avery site

Particulate Hazardous Substance

Acenaphthene Anthracene Barium Benz(a)anthracene Bis (2-ethylhexyl) phthalate Chrysene Copper Fluorene Lead Naphthalene PCBs Phenanthrene Pyrene

PRESCORE 1.0 - PRESCORE.TCL File 12/23/91 AIR PATHWAY WASTE CHARACTERISTICS Avery Railroad Dump and Roundhouse - 03/11/93

PAGE:

Source: 1 Avery site

Source Hazardous Waste Quantity Value: 8.96

| Hazardous Substance | Toxicity Value | Gas Mobility Value | Particulate Mobility Value | Toxicity/ Mobility Value |
|------------------------------|-------------------|--------------------------|----------------------------------|--------------------------------|
| Acenaphthene | 10 | 2.00E-01 | 2.00E-04 | 2.00E+00 |
| Anthracene | 10 | 2.00E-03 | 2.00E-04 | 2.00E-02 |
| Barium | 10000 | NA | 2.00E-04 | 2.00E+00 |
| Benz(a)anthracene | 1000 | 2.00E-04 | 2.00E-04 | 2.00E-01 |
| Bis (2-ethylhexyl) phthalate | 100 | 2.00E-03 | 2.00E-04 | 2.00E-01 |
| Chrysene | 100 | 2.00E-04 | 2.00E-04 | 2.00E-02 |
| Copper | 100 | NA | 2.00E-04 | 2.00E-02 |
| Ethyl benzene | 10 | 1.00E+00 | NA · | 1.00E+01 |
| Fluorene | 100 | 2.00E-01 | 2.00E-04 | 2.00E+01 |
| Lead | 10000 | NA | 2.00E-04 | 2.00E+00 |
| Naphthalene | 1000 | 2.00E-01 | 2.00E-04 | 2.00E+02 |
| PCBs | 10000 | NA | 2.00E-04 | 2.00E+00 |
| Phenanthrene | 1 | 2.00E-02 | 2.00E-04 | 2.00E-02 |
| Pyrene | 100 | 2.00E-03 | 2.00E-04 | 2.00E-01 |
| Toluene | 10 | 1.00E+00 | NA | 1.00E+01 |
| Xylene, o- | 10 | 1.00E+00 | NA | 1.00E+01 |

PRESCORE 1.0 - PRESCORE.TCL File 12/23/91 AIR PATHWAY WASTE CHARACTERISTICS Avery Railroad Dump and Roundhouse - 03/11/93

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Hazardous Substances Found in an Observed Release

Sample Observed Release ID Hazardous Substance

Particulate Toxicity/ Mobility Value

Gas Toxicity/ Mobility Value

- N/A and/or data not specified

Documentation for Particulate Mobility:

Determined from HRS Figure 6-3

Reference:

PRESCORE 1.0 - PRESCORE.TCL File 12/23/91 AIR PATHWAY WASTE CHARACTERISTICS Avery Railroad Dump and Roundhouse - 03/11/93

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| Toxicity/Mobility Value from Source Hazardous Substances: | 2.00E+02 |
|---|----------|
| Toxicity/Mobility Value from Observed Release Hazardous Substances: | 0.00E+00 |
| Toxicity/Mobility Factor: | 2.00E+02 |
| Sum of Source Hazardous Waste Quantity Values: | 8.96E+00 |
| Hazardous Waste Quantity Factor: | 10 |
| Waste Characteristics Factor Category: | 6 |

PRESCORE 1.0 - PRESCORE.TCL File 12/23/91 AIR PATHWAY TARGETS Avery Railroad Dump and Roundhouse - 03/11/93

Actual Contamination

Distance

No. Sample ID

(miles) Level of Contamination

PAGE:

- N/A and/or data not specified

Potential Contamination

| Distance Categories Subject to Potential Contamination | Population | Value | |
|---|------------|--------|--|
| Onsite | 1.0 | 0.4000 | |
| > 0 to 1/4 mile | 28.0 | 0.4000 | |
| > 1/4 to 1/2 mile | 50.0 | 0.3000 | |
| > 1/2 to 1 mile | 75.0 | 0.0900 | |
| > 1 to 2 miles | 12.0 | 0.0090 | |
| > 2 to 3 miles | 0.0 | 0.0000 | |
| > 3 to 4 miles | 0.0 | 0.0000 | |

Potential Contaminantion Factor: 1.0000

PREscore 1.0 - PRESCORE.TCL File 12/23/91 AIR PATHWAY TARGETS Avery Railroad Dump and Roundhouse - 03/11/93

PAGE:

Nearest Individual Factor

Level of Contamination: Potential Distance in miles: 0 to 1/8

Nearest Individual Value: 20

Documentation for Nearest Individual:

Nearest individual resides on-site

Reference: 2

Resources

Resource Use: YES

Resource Value: 5

PRESCORE 1.0 - PRESCORE.TCL File 12/23/91 AIR PATHWAY TARGETS Avery Railroad Dump and Roundhouse - 03/11/93

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Actual Contamination, Sensitive Environments

| Sensitive Environment | Distance (miles) | Sensitiv Environm Value | |
|---------------------------------------|---------------------|-------------------------------|----------|
| - N/A and/or data n | ot specified | | |
| · · · · · · · · · · · · · · · · · · · | | · | |
| | | | |
| | | | |
| Actual Contamination, Distance | Wetland | Wetland | aluo |
| · | Wetland Acreage | Wetland Acreage V | alue |
| Distance Category | Wetland Acreage | | alue |

PRESCORE 1.0 - PRESCORE.TCL File 12/23/91 AIR PATHWAY TARGETS Avery Railroad Dump and Roundhouse - 03/11/93

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Potential Contamination, Sensitive Environments

| Sensitive Environment | Distance (miles) | Sensitive Environment Value | Distance Weight | Weighted Value/10 |
|-----------------------|---------------------|-----------------------------------|--------------------|----------------------|
| | 0.000 | 0 | 1.0000 | 0.000 |

Potential Contamination, Wetlands

| Distance | Wetland | Wetland | Distance | Weighted |
|----------------------|-------------|---------------|----------|----------|
| Category | Acreage | Acreage Value | Weight | Value/10 |
| - N/A and/or data no | t specified | | | |

Sensitive Environment Potential Contamination Factor: 0.000

PRESCORE 1.0 - PRESCORE.TCL File 12/23/91 REFERENCES Avery Railroad Dump and Roundhouse - 03/11/93

- URS site visit observations. Site visit May 5, 1992.
- 2. Preliminary Assessment IDEQ 1991
- URS site sampling observations August 25, 16 1992
- 4. URS SI Report

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